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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,666	07/30/2001	Jonathan Lee Hanmann	K35A0872	2708
26332	7590	10/19/2005	EXAMINER	
WESTERN DIGITAL CORP. 20511 LAKE FOREST DRIVE C205 - INTELLECTUAL PROPERTY DEPARTMENT LAKE FOREST, CA 92630			WALSH, JOHN B	
			ART UNIT	PAPER NUMBER
			2151	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/918,666	Applicant(s) HANMANN ET AL.	
	Examiner John B. Walsh	Art Unit 2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-63 is/are pending in the application.
- 4a) Of the above claim(s) 3-9, 15-21, 24-30, 36-42 and 45-51 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 10-14, 22, 23, 31-35, 43, 44 and 52-56 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/20/2005</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 2, 10-14, 22, 23, 31-35, 43, 44 and 52-56 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,923,648 to Dutta.

As concerns claim 1, a method of operating a mobile terminal (column 2, line 10) comprising the steps of: receiving a first component of a document (a first frame of a document) over a first communication channel (column 1, line 32, one of the many communication channels are used); receiving a second component of the document over a second communication channel (a second frame of document received over a different channel, column 4, lines 19-21); and combining the first and second components of the document (frames are recombined at the mobile terminal to display the document to the user) at the mobile terminal.

As concerns claim 2, the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64).

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As concerns claim 10, the first component of the document is received over the first communication channel substantially concurrent with receiving the second component of the document over the second communication channel (rate of transmission is at such a speed such that reception of the first and second components of the document are considered to be received concurrently, for an interface receiving data serially, the buffer will received one after the other).

As concerns claim 11, the first component of the document is received during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); and the second component of the document is received during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component).

As concerns claim 12, a method of operating a mobile terminal comprising the steps of: receiving a first component of a document (a first frame of a document) over a communication channel (column 1, line 32; one of the many communication channels are used) during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); receiving a second component of the document (a second frame of a document) over the communication channel (column 1, line 32; one of the many communication channels are used) during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 13, the first component of the document is received over a first communication channel; and the second component of the document is received over a second

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communication channel (column 1, line 32, one of the many communication channels are used, frames can be transmitted over different channels).

As concerns claim 14, the first communication channel comprises a first bandwidth (channel inherently has a bandwidth), and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time; also column 3, lines 61-64, FDMA or TDMA).

As concerns claim 22, a mobile terminal (120) comprising: a screen (128); a local memory (DTE inherently has memory w/ processor); and a terminal controller (127) for: receiving a first component of a document (a first frame of a document) over a first communication channel (column 1, line 32, one of the many communication channels are used); receiving a second component of the document (a second frame of a document) over a second communication channel (column 1, line 32, one of the many communication channels are used); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 23, the mobile terminal as recited in claim 22, wherein the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time; also column 3, lines 61-64).

As concerns claim 31, the mobile terminal as recited in claim 22, wherein the first component of the document is received over the first communication channel substantially concurrent with receiving the second component of the document over the second communication channel (rate of transmission is at such a speed such that reception of the first and second components of the document are considered to be received concurrently, for an interface receiving data serially, the buffer will received one after the other).

As concerns claim 32, the mobile terminal as recited in claim 22, wherein: the first component of the document is received during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); and the second component of the document is received during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component).

As concerns claim 33, a mobile terminal comprising: a screen (128); a local memory (DTE inherently has memory w/ processor) and a terminal controller (127) for: receiving a first component of a document (first frame of a document) over a communication channel (column 1, line 32; one of the many communication channels are used) during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); receiving a second component of the document (second frame of a document) over the communication channel during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

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As concerns claim 34, the mobile terminal as recited in claim 33, wherein the first component of the document is received over a first communication channel; and the second component of the document is received over a second communication channel (column 1, line 32; one of the many communication channels are used, different channels used for transmitting/receiving different frames).

As concerns claim 35, the mobile terminal as recited in claim 34, wherein the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64).

As concerns claim 43, a computer program embodied on a computer readable storage medium for use in a mobile terminal, the computer program (DTE inherently has a computer program for executing particular instructions for processing) comprising code segments for: receiving a first component of a document (first frame of a document) over a first communication channel (column 1, line 32; one of the many communication channels are used); receiving a second component of the document (second frame of a document) over a second communication channel (column 1, line 32; one of the many communication channels are used); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 44, the computer program as recited in claim 43, wherein the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and

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the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64).

As concerns claim 52, the computer program as recited in claim 43, wherein the first component of the document is received over the first communication channel substantially concurrent with receiving the second component of the document over the second communication channel (rate of transmission is at such a speed such that reception of the first and second components of the document are considered to be received concurrently, for an interface receiving data serially, the buffer will received one after the other).

As concerns claim 53, the computer program as recited in claim 43, wherein the first component of the document is received during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); and the second component of the document is received during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component).

As concerns claim 54, a computer program embodied on a computer readable storage medium for use in a mobile terminal, the computer program (DTE inherently has a computer program for executing particular instructions for processing) comprising code segments for: receiving a first component of a document (first frame of a document) over a communication channel (column 1, line 32, one of the many communication channels are used) during a first synchronization session (transmitter and receiver are synchronized for exchanging the first component); receiving a second component of the document (second frame of a document) over

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the communication channel during a second synchronization session (transmitter and receiver are synchronized for exchanging the second component); and combining the first and second components of the document at the mobile terminal (frames are recombined at the mobile terminal to display the document to the user).

As concerns claim 55, the computer program as recited in claim 54, wherein the first component of the document is received over a first communication channel; and the second component of the document is received over a second communication channel (column 1, line 32, one of the many communication channels are used, different channels used for transmitting/receiving different frames).

As concern claim 56, the computer program as recited in claim 55, wherein: the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time, also column 3, lines 61-64).

3. Claims 1, 2, 10-14, 22, 23 and 31-35 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,029,045 to Picco et al.

As concerns claims 1, 12, 22 and 33, a method of operating a mobile terminal (set top box, column 3, line 1) comprising the steps of: receiving a first component of a document over a first communication channel (column 9, lines 32-36 and 59-60); receiving a second component of the document over a second communication channel (column 9, lines 32-36 and 59-60); and

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combining the first and second components of the document (column 10, lines 1-4) at the mobile terminal.

As concerns claims 2, 14, 23 and 35, the first communication channel comprises a first bandwidth (channel inherently has a bandwidth); and the second communication channel comprises a second bandwidth (channel inherently has a bandwidth) greater than the first bandwidth (bandwidth of second channel can be greater due to less traffic or less interference from noise at a particular point in time).

As concerns claims 10 and 31, the first component of the document is received over the first communication channel substantially concurrent with receiving the second component of the document over the second communication channel (components can be received at the same time when transmitted over separate channels).

As concerns claims 11, 12, 32 and 33, the first component of the document is received during a first synchronization session and the second component of the document is received during a second synchronization session (transmitter and receiver are synchronized for exchanging components; inherent for a communications system to synchronize; also the first and second sessions may be the same or take place at the same time).

As concerns claims 13 and 34, the first component of the document is received over a first communication channel; and the second component of the document is received over a second communication channel (column 9, lines 59-60).

As concerns claims 22 and 33, a mobile terminal (set top box and tv, column 3, line 1) comprising: a screen (screen of users TV); a local memory (186); and a terminal controller (188).

Response to Arguments

4. Applicant's arguments filed July 20, 2005 have been fully considered but they are not persuasive.

The applicant argues that Dutta does not disclose receiving a first component of a document over a first communication channel and receiving a second component of the document over a second communication channel, only that Dutta discloses using multiple channels. Dutta does disclose using multiple channels for transmitting and receiving data. A document at one end will be broken up into multiple components and transmitted as data via frames over a channel, wherein these frames are sent over multiple channels. The applicant further argues that Dutta only uses one channel to send messages. However the return channels of Dutta can also be used for sending messages (column 24, lines 59-60).

The applicant argues that Dutta does not disclose any synchronization sessions. The applicant has provided an example of what synchronization includes, however the claims do not recite such limitations. The claims, including the term "synchronization session", has been given their broadest reasonable interpretation, wherein synchronization is inherent in an effective communication system, such as that of Dutta.

Conclusion

5. Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on July 20, 2005 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 609.04(b). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

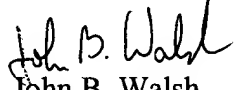
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Walsh whose telephone number is 571-272-7063. The examiner can normally be reached on Monday-Thursday from 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


John B. Walsh
Primary Examiner
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